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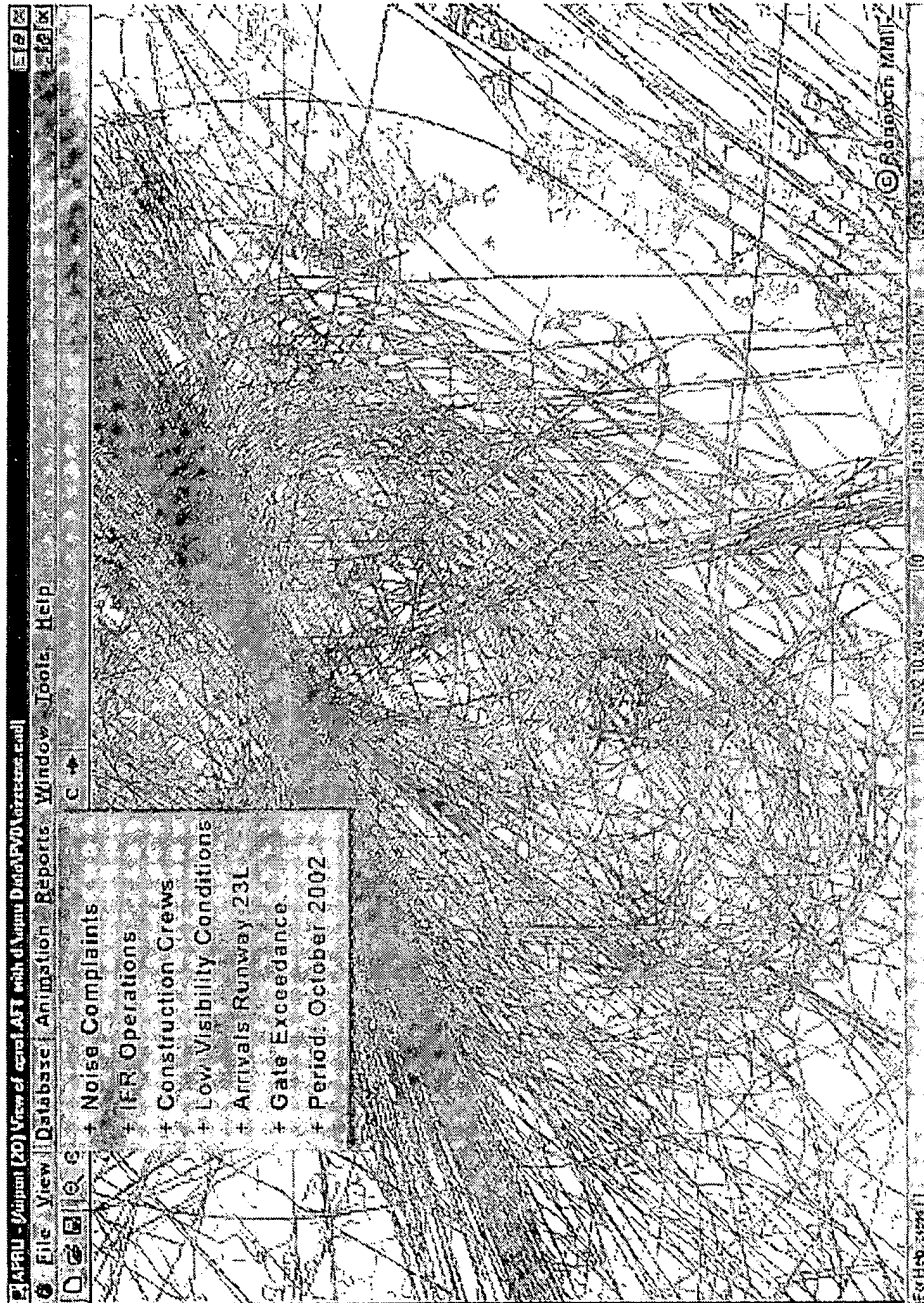


Figure 1

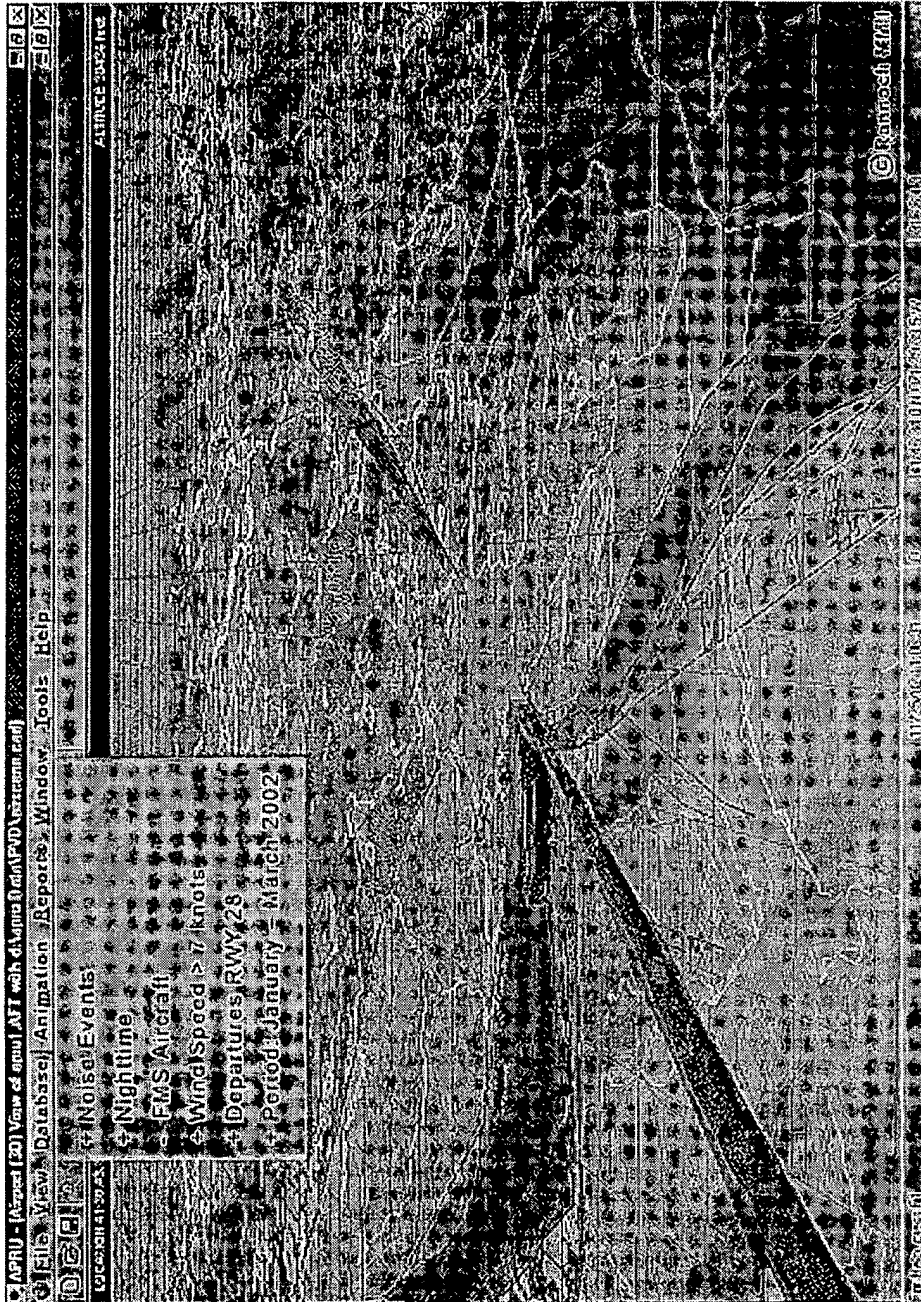


Figure 2

RANN-0012
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Actual Transcript	Explanation
DuPage	Name of airport
ATIS Information "Echo"	Each time something in the recorded announcement changes, or at least once each hour, a new recording is made, and the alpha letter is assigned phonetically, in order. (e.g., Alpha, Bravo, Charlie...)
1745 zulu	Time in 24 hour clock (UTC) also known as (GMT) or (ZULU). Subtract 5 hours for Central Daylight Savings Time.
Winds 310 at 8	Wind direction and speed in knots.
Visibility 35	Visibility in statute miles.
Sky condition, 5000 broken	Bottom of clouds at 5000 feet above the ground, 5 to 7 eighths of the sky is obscured by clouds.
Temperature 27	Temperature in degrees Celsius.
Dew point 15	Dew point in degrees Celsius. Temperature at which condensation (rain, fog, etc.) will form. Temp./dew point spread within 3 degrees indicates high relative humidity.
Altimeter 30.16	Current barometric pressure.
ILS approach runway 1 left and visual approaches are in use	Runways and types of approaches in use.
Landing and departing runway 1 left, 1 right, 33	Runways in use.
VFR departures advise ground control direction of flight	Inform controller as to which direction you will travel from airport
IFR departures contact ground control prior to taxi for your clearances	Aircraft operating under Instrument Flight Rules must contact tower prior to taxiing for instructions.
Notice to Airman	Critical information that affects flight planning
DuPage radar out of service	Radar at DuPage Airport out of service.
Runway 10, 28 closed	Runway closed
ILS to runway 10 out of service	The instrument landing system is out of service
Taxiway Golf closed between taxiway X-ray and taxiway Whisky	Portion of taxiway closed.
Taxiway Charlie closed South of taxiway Echo	Portion of taxiway closed.
Use caution for men and equipment on the field	Be alert for non-aviation activities (i.e. construction crews)
Advise on initial contact, you have "Echo"	Instructions for pilot to advise ATC that ATIS "name" has been received by the pilot. Controller will not have to repeat this information.

Figure 3

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Country	Airport	ICAO Code	IATA Code	Service Provider
Austria	Innsbruck	LOWI	INN	ARINC
	Klagenfurt	LOWK	KLU	
	Vienna	LOWW	VIE	
Australia	Adelaide	YPAD	ADL	SITA
	Brisbane	YBBN	BNE	
	Cairns	YBCS	BCS	
	Melbourne	YMLL	MEL	
	Perth	YPPH	PER	
Canada	Sydney	YSSY	CNS	ARINC, SITA
	Halifax	CYHZ	YHZ	
	Ottawa	CYOW	YOW	
China	Toronto	CYYZ	YYZ	ARINC, SITA
	Vancouver	CYVR	YVR	
	Hong Kong	VHHH	HKG	
Denmark	Aalborg	EKYT	AAL	ARINC, SITA
	Copenhagen	EKCH	CPH	
	Roskilde	EKRK	RKE	
Finland	Helsinki	EFHK	HEL	
France	Paris-Charles de Gaulle	LFPG	CDG	ARINC, SITA
	Paris-Orly	LFPO	ORY	
Germany	Berlin-Schonefeld	EDDB	SXF	ARINC, SITA
	Berlin- Tempelhof	EDDI	THF	
	Berlin-Tegel	EDDT	TXL	
	Bremen	EDDW	BRE	
	Cologne/Bonn	EDDK	CGN	
	Duesseldorf	EDDL	DUS	
	Frankfurt	EDDF	FRA	
	Hamburg	EDDH	HAM	
	Hannover	EDDV	HAI	
	Leipzig	EDDP	LEJ	
	Muenster/Osnabrueck	EDDG	FMO	
	Munich	EDDM	MUC	
	Nuremberg	EDDN	NUE	
	Stuttgart	EDDS	STR	
Japan	Osaka	RJBB	KIX	Avicom
	Tokyo-Narita and other airports	RJAA ++	NRT ++	
Norway	Oslo	ENGM	OSL	ARINC, SITA
Netherlands, the	Amsterdam	EHAM	AMS	
New Zealand	Auckland	NZAA	AKL	ARINC, SITA
	Christchurch	NZCH	CHC	
	Wellington	NZWN	WLG	
Portugal	Lisbon	LPPT	LIS	SITA
Singapore	Singapore	WSSS	SIN	SITA, ARINC
Sweden	Gothenburg-Landvetter	ESGG	GOT	ARINC, SITA
	Stockholm-Arlanda	ESSA	ARN	
	Stockholm-Bromma	ESSB	BMA	
Switzerland	Geneva	LSGG	GVA	SITA, ARINC
	Zurich	LSZH	ZRH	
Thailand	Bangkok	VTBD	BKK	ARINC, SITA
	Chiang Mai	VTCC	CNX	
	Hat Yai	VTSS	HDY	
	Phuket	VTSP	HKT	
UK	London-Heathrow	EGLL	LHR	
	London-Gatwick	EGKK	LGW	
USA	Chicago O'Hare	KEWR	MDW	ARINC, SITA
	Newark	KORD	ORD	
	Seattle	KSEA	SEA	
	+ 54 other major airports	++	++	

Figure 4

Current Weather Conditions:
Washington DC, Washington-Dulles International Airport, VA, United States

(KIAD) 38-56-05N 077-26-51W 93M

Conditions at Dec 01, 2002 - 10:51 AM EST

2002.12.01 1551 UTC

Wind from the W (280 degrees) at 22 MPH (19 KT) gusting to 30 MPH (26 KT)

Visibility 10 mile(s)

Sky conditions mostly cloudy

Temperature 34.0 F (1.1 C)

Windchill 21 F (-6 C)

Dew Point 12.9 F (-10.6 C)

Relative Humidity 41%

Pressure 30.02 in. Hg (1016 hPa)
(altimeter)

ob KIAD 011551Z 28019G26KT 10SM BKN047 01/M11 A3002 RMK AO2 PK WND 29026/1551 SLP167
T00111106

Maximum and Minimum Temperatures

Maximum Temperature F (C)	Minimum Temperature F (C)
---------------------------------	---------------------------------

34.0 (1.1)	28.9 (-1.7)	In the 6 hours preceding Dec 01, 2002 - 06:51 AM EST / 2002.12.01 1151 UTC
55.0 (12.8)	33.1 (0.6)	In the 24 hours preceding Nov 30, 2002 - 11:51 PM EST / 2002.12.01 0451 UTC

Precipitation Accumulation

Precipitation
Amount

A trace	In the 6 hours preceding Dec 01, 2002 - 12:51 AM EST / 2002.12.01 0551 UTC
0.04 inches	In the 24 hours preceding Dec 01, 2002 - 06:51 AM EST / 2002.12.01 1151 UTC

Figure 5

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24 Hour Summary						
	Time EST (UTC)	Temperature F (C)	Dew Point F (C)	Pressure Inches (hPa)	Wind MPH	Weather
Latest	11 AM (16) Dec 01	34.0 (1.1)	12.9 (-10.6)	30.02 (1016)	W 22	
	10 AM (15) Dec 01	30.9 (-0.6)	12.0 (-11.1)	30.01 (1016)	WNW 13	
	9 AM (14) Dec 01	32.0 (0.0)	12.9 (-10.6)	29.98 (1015)	Calm	
	8 AM (13) Dec 01	30.9 (-0.6)	12.0 (-11.1)	29.95 (1014)	WNW 14	
	7 AM (12) Dec 01	30.0 (-1.1)	10.0 (-12.2)	29.92 (1013)	WSW 7	
	6 AM (11) Dec 01	30.0 (-1.1)	15.1 (-9.4)	29.89 (1012)	W 15	
	5 AM (10) Dec 01	30.0 (-1.1)	12.0 (-11.1)	29.84 (1010)	W 16	
	4 AM (9) Dec 01	30.9 (-0.6)	14.0 (-10.0)	29.82 (1009)	W 12	
	3 AM (8) Dec 01	32.0 (0.0)	14.0 (-10.0)	29.8 (1009)	WNW 12	
	2 AM (7) Dec 01	33.1 (0.6)	19.0 (-7.2)	29.79 (1008)	W 22	
	1 AM (6) Dec 01	34.0 (1.1)	21.0 (-6.1)	29.76 (1007)	W 13	
	Midnight (5) Dec 01	34.0 (1.1)	23.0 (-5.0)	29.74 (1007)	WNW 20	
	11 PM (4) Nov 30	34.0 (1.1)	26.1 (-3.3)	29.73 (1006)	W 13	
	10 PM (3) Nov 30	35 (2)	26 (-3)	29.72 (1006)	W 10	light snow
	9 PM (2) Nov 30	37.9 (3.3)	25.0 (-3.9)	29.67 (1004)	NW 17	
	8 PM (1) Nov 30	39.9 (4.4)	26.1 (-3.3)	29.6 (1002)	WNW 22	
	7 PM (0) Nov 30	39.9 (4.4)	32.0 (0.0)	29.55 (1000)	W 14	
	6 PM (23) Nov 30	43.0 (6.1)	30.9 (-0.6)	29.54 (1000)	NW 22	light rain
	5 PM (22) Nov 30	44.1 (6.7)	30.0 (-1.1)	29.49 (998)	W 3	
	4 PM (21) Nov 30	46.9 (8.3)	30.9 (-0.6)	29.47 (997)	WNW 17	
	3 PM (20) Nov 30	44.1 (6.7)	32.0 (0.0)	29.44 (996)	WNW 10	
	2 PM (19) Nov 30	42 (6)	32 (0)	29.45 (997)	NW 16	light rain
	1 PM (18) Nov 30	51 (11)	32 (0)	29.4 (995)	NW 16	light rain
Oldest	Noon (17) Nov 30	48.9 (9.4)	32.0 (0.0)	29.42 (996)	SSW 14	

Figure 6

Combination	Low Visibility	TCAS Advisory	Low Ceiling	ATC Instruction	Event/ Incident	Possible Reason
1	N	N	N	N	Radar Problem at Airport	Pilot may have elected to switch runways. Radar service not available.
2	N	N	N	Y	Fuel spill on main runway	ATC instructed aircraft to switch runways, possibly due fuel spill.
3	N	N	Y	N	-	Aircraft did not meet criteria for IFR approach to that runway
....						
9	N	Y	N	N	-	Safety, loss of separation
...						
11	Y	N	Y	N	-	Aircraft did not meet criteria for IFR approach to that runway
...						

Figure 7

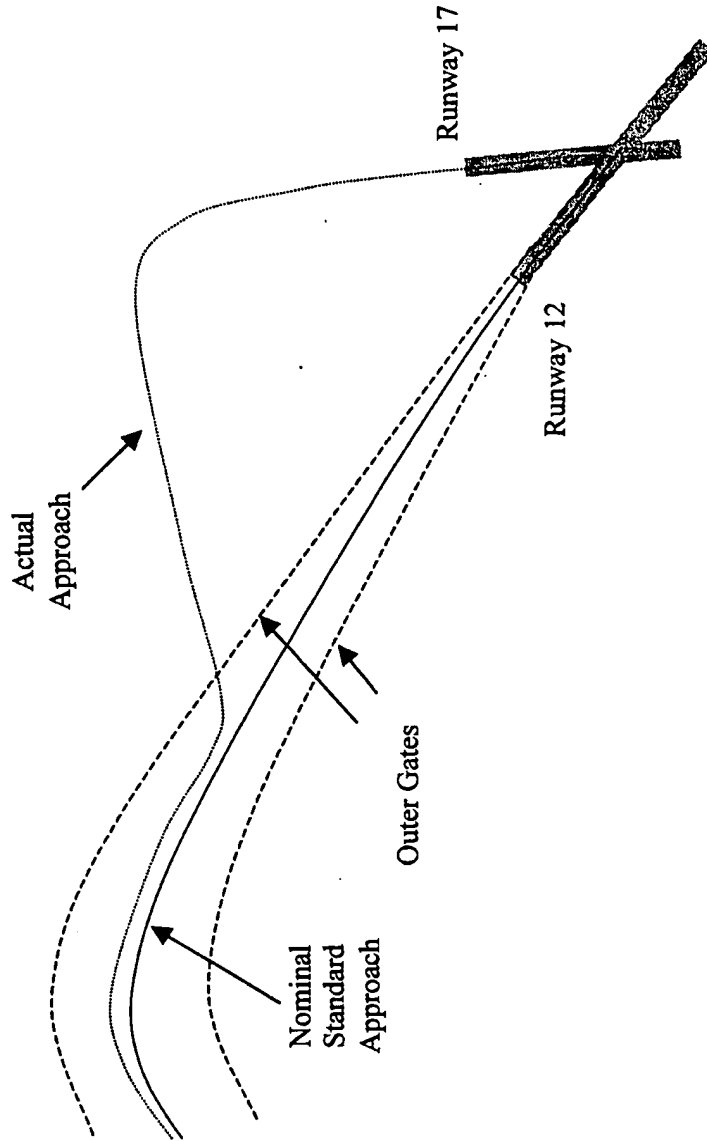


Figure 8

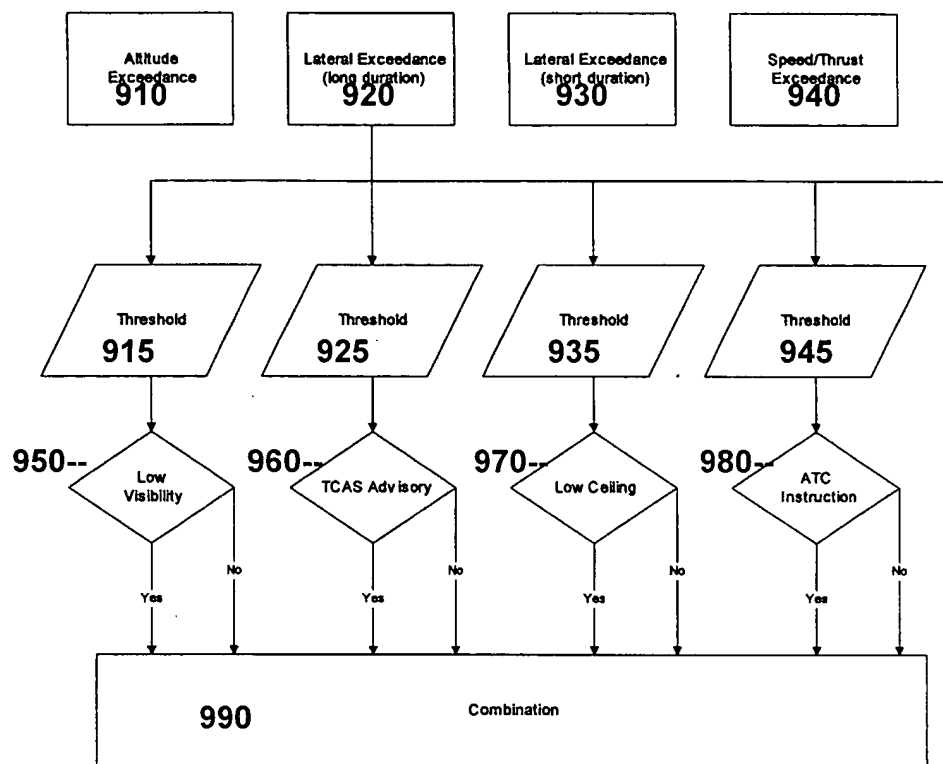


Figure 9